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Attorney Docket No.

UTILITY PATENT APPLICATION TRANSMITTAL

First Inventor Wen-Bin Yan

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Name (Print/Type)

Signature

Jacques L. Etkowicz

APPARATUS AND METHOD FOR IMPROVED ANALYSIS OF LIQUIDS BY CONTINUOUS WAVE-CAVITY RING DOWN SPECTROSCOPY

TGR-106US

Express Mail Label No. EV 418254465 US Mail Stop Patent Application APPLICATION ELEMENTS Commissioner for Patents ADDRESS TO: P.O. Box 1450 See MPEP chapter 600 concerning utility patent application contents. Alexandria, VA 22313-1450 7. CD-ROM or CD-R in duplicate, large table or 1. 🔯 Fee Transmittal Form (e.g., PTO/SB/17) Computer Program (Appendix) (Submit an original and a duplicate for fee processing 8. Nucleotide and/or Amino Acid Sequence Submission 2. Applicant claims small entity status. (if applicable, all necessary) See 37 CFR 1.27. a. Computer Readable Form (CRF) з. 🛛 Specification [Total Pages 16 b. Specification Sequence Listing on: CD-ROM or CD-R (2 copies); or paper (preferred arrangement set forth below - Descriptive title of the Invention - Cross References to Related Applications - Statement Regarding Fed sponsored R & D c.

Statements verifying identity of above copies - Reference to sequence listing, a table, or a computer program listing appendix **ACCOMPANYING APPLICATIONS PARTS** - Background of the Invention - Brief Summary of the Invention 9. X Assignment Papers (cover sheet & document(s)) - Brief Description of the Drawings (if filed) □ Power of 10. 37 C.F.R.§3.73(b) Statement - Detailed Description (when there is an assignee) Attorney Claim(s) - Abstract of the Disclosure 11. English Translation Document (if applicable) Drawing(s) (35 U.S.C.113) [Total Sheets] 12. Information Disclosure ☐ Copies of IDS Statement (IDS)/PTO-1449 Citations 5. Oath or Declaration [Total Pages 2 13. Preliminary Amendment Newly executed (original or copy) b. Copy from a prior application (37 CFR 1.63 (d)) 14. Return Receipt Postcard (MPEP 503) (for a continuation/divisional with Box 18 completed) (Should be specifically itemized) ☐ DELETION OF INVENTOR(S) 15. Certified Copy of Priority Document(s) Signed statement attached deleting inventor(s) (if foreign priority is claimed) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. Application Data Sheet. See 37 CFR 1.76 17. Other: check in the amount of \$425:.00 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: □ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: ____ Prior application information Examiner Group / Art Unit: For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS Insert Customer Number 23122 OR Correspondence address below Name Address City State Zip Code Country Telephone Fax

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mall Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Registration No. (Attorney/Agent)

41,738

December 3, 2003

120303

PTO/SB/17 (10-03) (AW 12/2003)
Approved for use through 7/31/2006. OMB 0651-0032
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Art Unit

Attorney Docket No.

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Effective 10/01/2003. Patent fees are subject to annual revision.

🔀 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

/\$ \	42
(\$)	42

Complete if Known To Be Assigned Application Number Filing Date Herewith Wen-Bin Yan First Named Inventor **Examiner Name**

TGR-106US

METHOD OF PAYMENT (check all that apply)				FEE CALCULATION (continued)				
☐ Check ☐ Credit Card ☐ Money ☐ Other ☐ None			3. ADDITIONAL FEES Large Entity Small Entity					
Order ☑ Deposit Account:			Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
Deposit	40.0050		1051	130	2051	65	Surcharge - late filing fee or oath	
Account Number 18-0350		1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.		
Deposit Account RatnerPrestia Name			1053	130	1053	130	Non-English specification	
The Director is authorized to: (check all that apply)			1812	2,520	1812	2,520	For filling a request for ex parte reexamination	
☐ Charge fee(s) indicated below			1804	920*	1804	920*	Requesting publication of SIR prior to	
□ Credit any overpayments □ Charge any additional fee(s) or any underpayment of fee(s) □ Charge fee(s) indicated below, except for the filing fee to the			1805	1,840*	1805	1,840*	Examiner action Requesting publication of SIR after Examiner action	
above-identified deposit account.			1251	110	2251	55	Extension for reply within first month	
FEE CALCULATION			1252	420	2252	210	Extension for reply within second month	
1. BASIC FILING FEE			1253	950	2253	475	Extension for reply within third month	
	mall Entity		1254	1,480	2254	740	Extension for reply within fourth month	
	ee Fee ode (\$)	Fee Description Fee Paid	1255	2,010	2255	1,005	Extension for reply within fifth month	
***	,	Utility filing fee 385	1,401	330	2401	165	Notice of Appeal	
1002 340 20	002 170	Design filing fee	1402	330	2402	165	Filing a brief in support of an appeal	
		Plant filing fee	1403	290	2403	145	Request for oral hearing	
_	004 385 005 80	Reissue filing fee Provisional filling fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1005 160 2005 80 Provisional filling fee		1452	110	2452	55	Petition to revive – unavoidable	\vdash	
	SUBTOTA	L (1) (\$) 385	1453	1,330	2453	665	Petition to revive – unintentional	
2. EXTRA CLAIM	FEES FOR UT	TILITY AND REISSUE	1501	1,330	2501	665	Utility issue fee (or reissue)	
Extra Fee from Fee Claims below Paid			480			· · · · · · · · · · · · · · · · · · ·		
Total Claims 20	-20** = [0 x = 0	1502		2502	240	Design issue fee	<u> </u>
Independent Claims 3	-3** =	0 X = 0	1503	640	2503	320	Plant issue fee	
Multiple	ا ا		1460	130	1460	130	Petitions to the Commissioner	
Dependent		X = 0	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
• •	Small Entity		1806	180	1806	180	Submission of Information Disclosure Stmt	
Fee Fee Code (\$)	Fee Fee Code (\$)	Fee Description	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40.00
1202 18	2202 9	Claims in excess of 20	1809	770	2809	385	Filing a submission after final rejection (37	
1201 86 1203 290	2201 43 2203 145	Independent claims in excess of 3 Multiple dependent claim, if not paid	1810	770	2810	385	CFR § 1.129(a)) For each additional invention to be	
1204 86	2204 43	** Reissue independent claims over					examined (37 CFR § 1.129(b))	
1204 00	2204 43	original patent	1801	770	2801	385	5 Request for Continued Examination (RCE)	
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	Request for expedited examination of a design application	
SUBTOTAL (2) (\$) 0 Other fee (specify)								
**or number previous	alv naid if oreater	For Reissues see above	*Red	uced by	Basic F	iling Fee	Paid SUBTOTAL (3) (\$) 40	

SUBMITTED BY Complete (if applicable) Name (Print/Type) Registration-No. Attorney/Agent) 41,738 Telephone (610) 407-0700 Signature December 3, 2003 VARISING: Antomation on this form may become public. Credit card information should not

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CERTIFICATE OF MAII	Docket No.				
Applicant(s):			TGR-106US		
Serial No.	Filing Date	Examiner	Group Art Unit		
To Be Assigned	Herewith	,			
Invention: APPARATUS A WAVE-CAVITY RING DO	AND METHOD FOR IMPROV	VED ANALYSIS OF LIQUID	DS BY CONTINUOUS		
I hereby certify that the fo	llowing correspondence: n Transmittal; Assignment; a	nd Delcaration/Power of At	torney		
CFR 1.10 in an envelope	e United States Postal Service "		ddressee" service under 37		
		(Typed or Printed Name of Person Mailing Correspondence) (Signature of Person Mailing Correspondence)			
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